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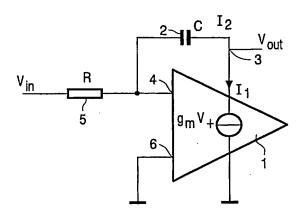


FIG. 1

PRIOR ART

$$I_{2} = \frac{V_{out} - V_{in}}{1/sC + R}$$
 Equation 1
$$I_{1} = g_{m}V_{+} = \frac{g_{m}V_{in}/sC + g_{m}V_{out}R}{1/sC + R}$$
 Equation 2
$$V_{+} = \frac{V_{in}/sC + V_{out}R}{1/sC + R}$$
 Equation 3
$$I_{1} + I_{2} = 0$$
 Equation 4
$$\Rightarrow V_{out} - V_{in} + g_{m}V_{in}/sC + g_{m}V_{out}R = 0$$
 Equation 5
$$\Rightarrow \frac{V_{out}}{V_{in}} = -\frac{1 - sC/g_{m}}{s(1/g_{m} + R)C}$$
 Equation 6

FIG. 5

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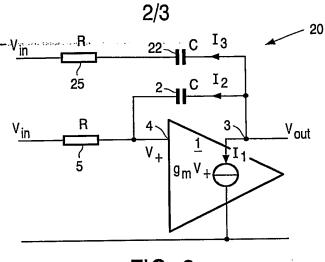


FIG. 2

$$I_2 = \frac{V_{out} - V_{in}}{1/sC + R}$$
 Equation 7
$$I_3 = \frac{V_{out} + V_{in}}{1/sC + R}$$
 Equation 8
$$I_2 + I_3 = \frac{2V_{out}}{1/sC + R}$$
 Equation 9
$$V_+ = \frac{V_{in}/sC + V_{out} R}{1/sC + R}$$
 Equation 10
$$\Rightarrow I_1 = \frac{g_m V_{in}/sC + g_m V_{out} R}{1/sC + R}$$
 Equation 11
$$I_1 + I_2 + I_3 = 0$$
 Equation 12
$$g_m V_{in}/sC + g_m V_{out} R + 2V_{out} = 0$$
 Equation 13
$$\frac{V_{out}}{V_{in}} = -\frac{1}{s(2/g_m + R)C}$$
 Equation 14

FIG. 6

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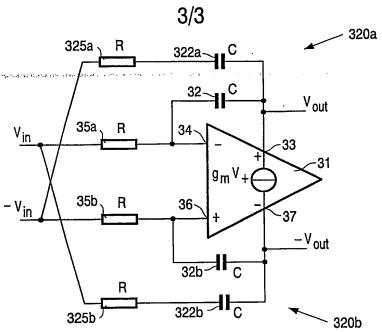


FIG. 3

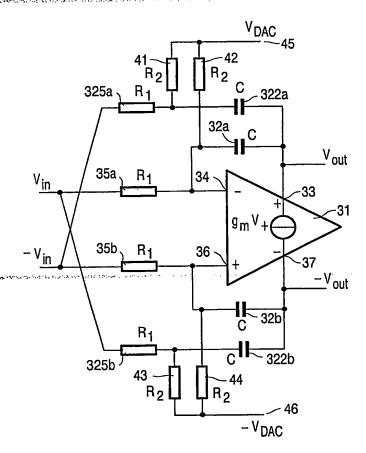


FIG. 4